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CLAIMS

- 1. A solid-state laser comprising a laser cavity which introduces pumping light into a gain crystal via a focusing lens and a dichroic concave mirror, wherein the focusing lens is tilted with respect to the optical axis of the pumping light so that a focusing point of the pumping light in a sagittal plane and a focusing point of the pumping light in a tangential plane in the gain crystal almost coincide with focusing points in the respective planes in the gain crystal in a cavity mode.
- 2. The solid-state laser according to claim 1, wherein the pumping light incident plane of the gain crystal is polished to have the Brewster angle or to be deviation from the right angle with respect to the optical axis of the cavity mode.
- 3. The solid-state laser according to claim 1,
 wherein the pumping light incident plane of the gain
 crystal is polished to have the right angle with
 respect to the optical axis of the cavity mode.
- 4. The solid-state laser according to claim 1,
 wherein the tilting angle of the focusing lens is
 changed within a certain range around the predetermined
 tilting angle at which the focusing points of the
 pumping light in the sagittal and tangential planes in

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the gain crystal almost coincide with the focusing points in the respective planes in the gain crystal in the cavity mode.

- wherein the tilting angle of the focusing lens is changed within a certain range around the predetermined tilting angle at which the focusing points of the pumping light in the sagittal and tangential planes in the gain crystal almost coincide with the focusing points in the respective planes in the gain crystal in the cavity mode.
 - 6. The solid-state laser according to claim 3, wherein the tilting angle of the focusing lens is changed within a certain range around the predetermined tilting angle at which the focusing points of the pumping light in the sagittal and tangential planes in the gain crystal almost coincide with the focusing points in the respective planes in the gain crystal in the cavity mode.
 - 7. The solid-state laser according to claim 1, further comprising a plate for beam axis adjustment to be disposed between the pumping light source and the focusing lens.
 - 8. A solid-state laser comprising:

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- (a) a laser cavity having a gain crystal and two end mirrors;
- (b) a pumping light source for supplying pumping light to be led to the gain crystal;
- (c) a dichroic concave mirror for introducing the pumping light to the gain crystal and constructing the laser cavity or deriving outgoing light; and
- (d) a lens for focusing the pumping light on the inside of the gain crystal in the laser cavity,

wherein the focusing lens is tilted with respect to the optical axis of the pumping light so that the focusing point of the pumping light in a sagittal plane and that in a tangential plane in the gain crystal almost coincide with the focusing points in the respective planes in the gain crystal in the cavity mode.

- 9. The solid-state laser according to claim 8, wherein the pumping light incident plane of the gain crystal is polished to have the Brewster angle or to be deviated from the right angle with respect to the optical axis of the cavity mode.
- 10. The solid-state laser according to claim 8, wherein the pumping light incident plane of the gain crystal is polished to have the right angle with respect to the optical axis of the cavity mode.

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- 11. The solid-state laser according to claim 8, wherein the tilting angle of the focusing lens is changed within a certain range around the predetermined tilting angle at which the focusing points of the pumping light in the sagittal and tangential planes in the gain crystal almost coincide with the focusing points in the respective planes in the gain crystal in the cavity mode.
- 12. The solid-state laser according to claim 10, wherein the tilting angle of the focusing lens is changed within a certain range around the predetermined tilting angle at which the focusing points of the pumping light in the sagittal and tangential planes in the gain crystal almost coincide with the focusing points in the respective planes in the gain crystal in the cavity mode.
- 13. The solid-state laser according to claim 9,

 wherein the tilting angle of the focusing lens is
 changed within a certain range around the predetermined
 tilting angle at which the focusing points of the
 pumping light in the sagittal and tangential planes in
 the gain crystal almost coincide with the focusing
 points in the respective planes in the gain crystal in
 the cavity mode.
 - 14. The solid-state laser according to claim 8,

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further comprising a plate for beam axis adjustment to be disposed between the pumping light source and the focusing lens.

- wherein the laser cavity comprises a gain crystal whose pumping light incident plane is polished to be normal to the optical axis of the cavity mode, a concave mirror, and a Littrow prism, and the pumping light incident plane of the gain crystal and the plane opposite to a light incident plane of the Littrow prism serve as end mirrors.
 - 16. The solid-state laser according to claim 8, wherein the laser cavity comprises a dichroic concave mirror, a gain crystal, a concave mirror, and an end mirror, the pumping light incident plane of the gain crystal is polished to have the Brewster angle, and the pumping light enters the gain crystal via the dichroic concave mirror.